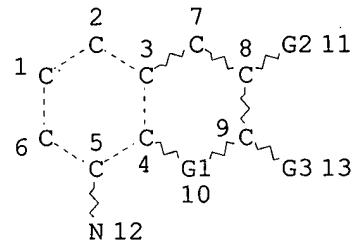


Patel, S.
10/05/776

10/051776

(FILE=REGISTRY ENTERED AT 11:25:09 ON 22 OCT 2002)
L3 STR

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O S S
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@20 21 29 @23 27 31



18 43
O O
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VAR G1=N/O/S
VAR G2=H/AK
VAR G3=16/20/23/25/26/33/35/38/40

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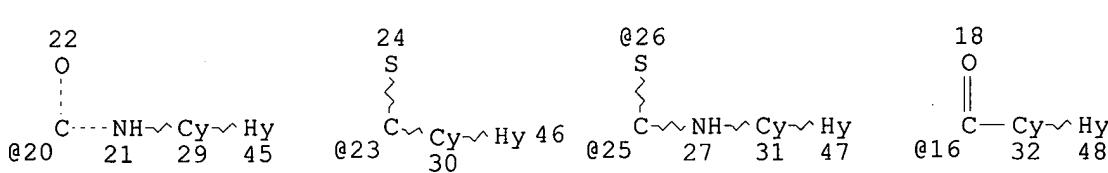
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DEFAULT ECLEVEL IS LIMITED

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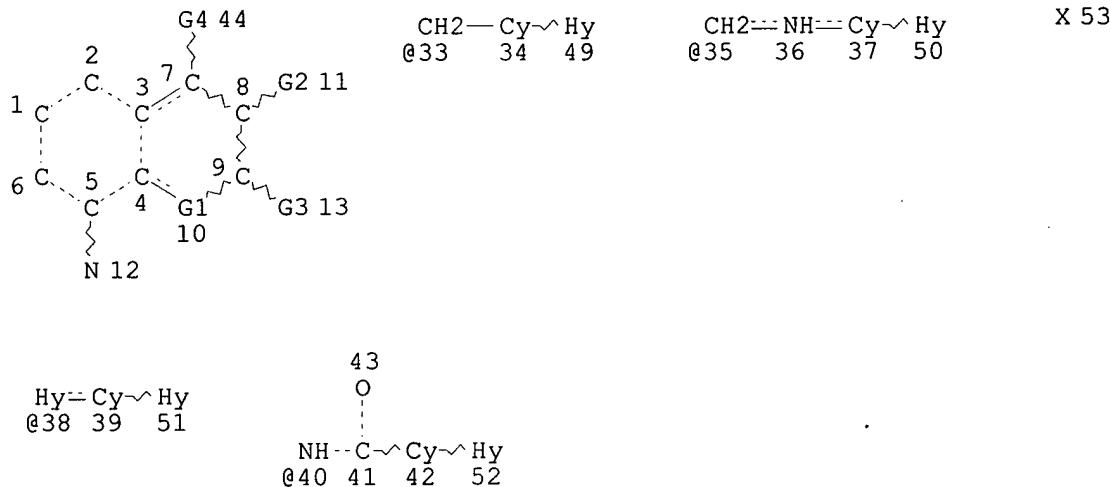
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STEREO ATTRIBUTES: NONE
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L18 STR

10/051776



Typical compd.



VAR G1=N/O/S
VAR G2=H/AK
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VAR G4=H/O/OH/N/S

NODE ATTRIBUTES:

NSPEC IS R AT 12
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STEREO ATTRIBUTES: NONE
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24 ANSWERS

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3 S L19

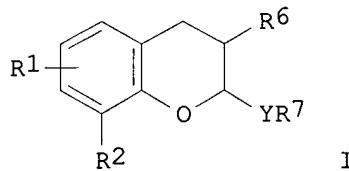
10/051776

L20 ANSWER 1 OF 3 HCPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:539473 HCPLUS
DOCUMENT NUMBER: 137:109293
TITLE: Preparation of piperazinylchromans as 5-HT1B and
5-HT1D agonists/antagonists useful as
antimigraine drugs.
INVENTOR(S): Chapdelaine, Marc; Davenport, Timothy;
Haeberlein, Markus; Horchler, Carey; McCauley,
John; Pierson, Edward; Sohn, Daniel
PATENT ASSIGNEE(S): AstraZeneca Ab, Swed.
SOURCE: PCT Int. Appl., 139 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055014	A2	20020718	WO 2002-SE70	20020115
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2001-262108P	P 20010116
			SE 2001-3646	A 20011101

OTHER SOURCE(S): MARPAT 137:109293

GI



AB Title compds. [I; R1 = H, thiomethoxy, NHA, NA2, NHCOA, halo, OH,
OA, cyano, aryl, (substituted) alkyl, cycloalkyl, etc.; A =
(substituted) alkyl, cycloalkyl, alkenyl, alkynyl; R2 =
(substituted) piperazinyl, homopiperazinyl, aminoalkylamino,
aminoheterocyclyl, heterocyclylamino; R6 = H, Me; Y = CONH, CONA,
CSNH, CH2CO, CH2NA, piperazinylcarbonyl, 5-membered heterocyclene,
etc.; R7 = (substituted) mono- or bicyclic aryl, heterocyclyl], were
prep'd. Thus, 8-(4-methyl-1-piperazinyl)chroman-2-carboxylic acid
hydrochloride (prepn. given) in DMF was treated sequentially with
1-hydroxybenzotriazole, O-(1H-benzotriazol-1-yl)-N,N,N',N'-
pentamethyleneuronium tetrafluoroborate, Et3N, and
4-(4-morpholinyl)aniline (prepn. given) followed by stirring

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overnight to give 8-(4-methyl-1-piperazinyl)chroman-2-carboxylic acid (4-morpholin-4-ylphenyl)amide. Several I showed 5-HT1B antagonist activity in the range 0.006-5.5 mg/kg in a screen for reversal of hypothermia in guinea pigs.

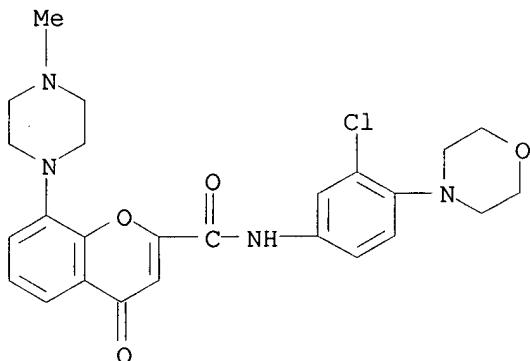
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442548-99-4P 442549-00-0P 442549-08-8P
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442549-28-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperazinylchromans as 5-HT1B and 5-HT1D agonists/antagonists useful as antimigraine drugs)

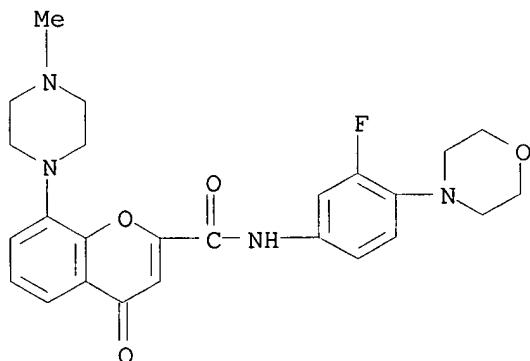
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CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-55-2 HCAPLUS

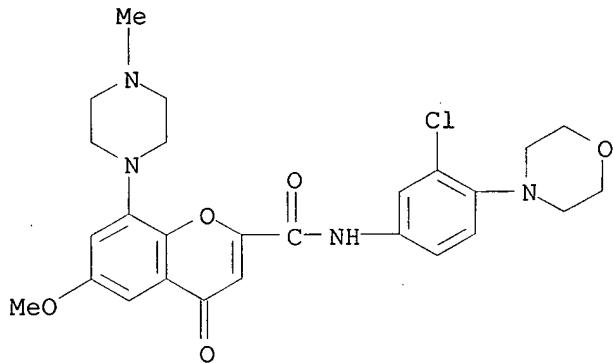
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RN 442548-60-9 HCAPLUS

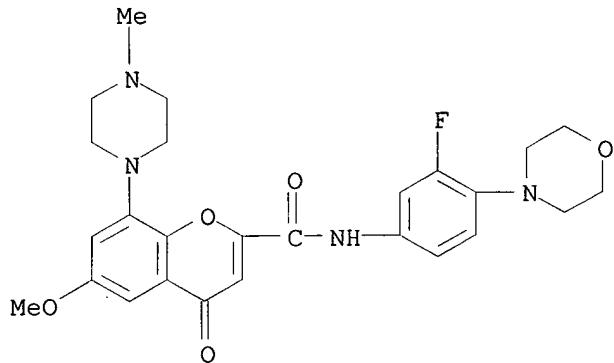
10/051776

CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-6-methoxy-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



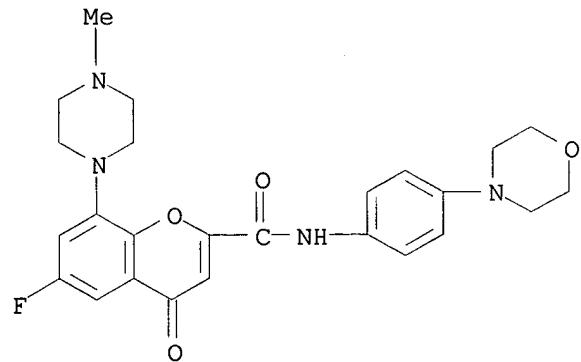
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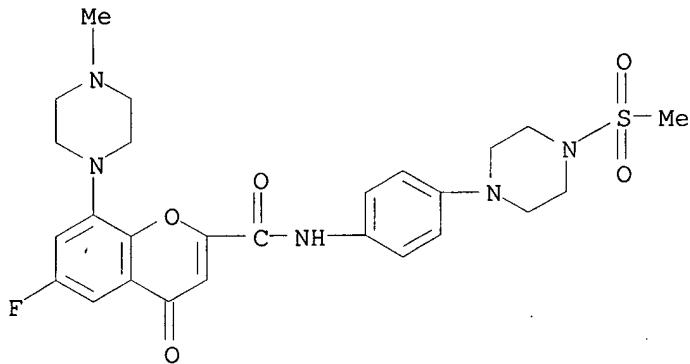
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10/051776

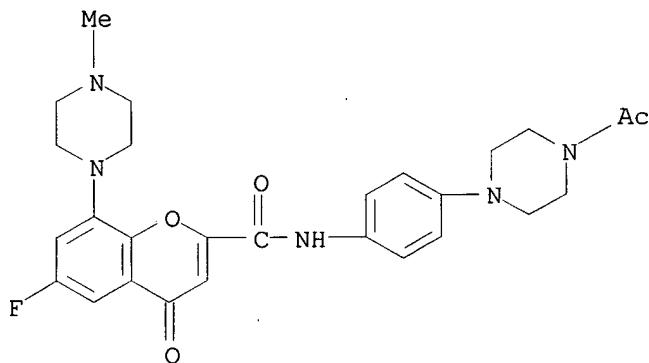
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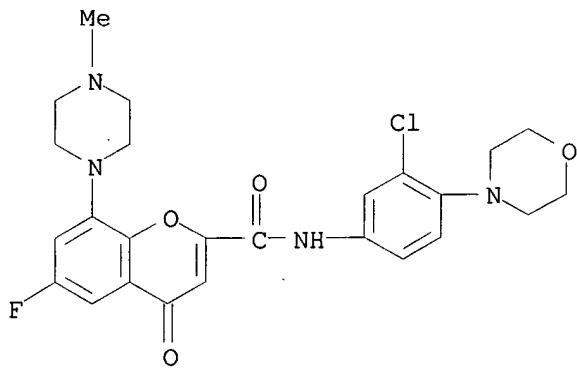
CN 4H-1-Benzopyran-2-carboxamide, N-[4-(4-acetyl-1-piperazinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



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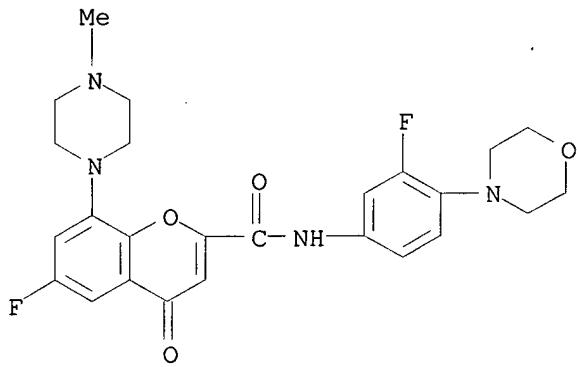
CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)

10/051776



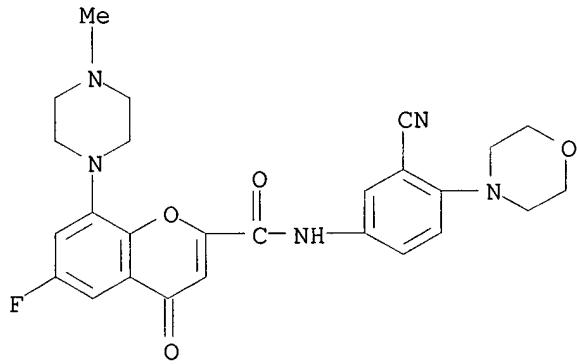
RN 442548-86-9 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-N-[3-fluoro-4-(4-morpholinyl)phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-87-0 HCAPLUS

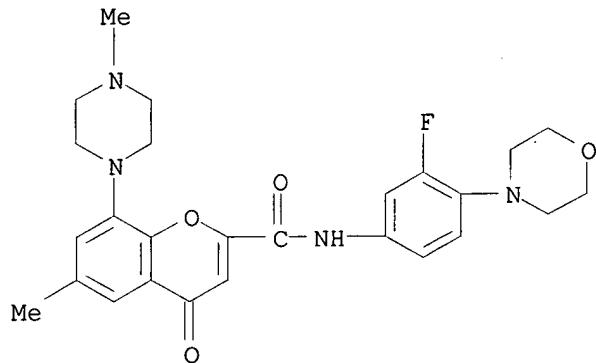
CN 4H-1-Benzopyran-2-carboxamide, N-[3-cyano-4-(4-morpholinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-91-6 HCAPLUS

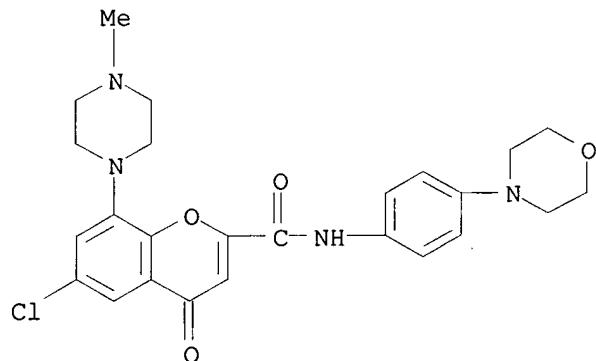
10/051776

CN 4H-1-Benzopyran-2-carboxamide, N-[3-fluoro-4-(4-morpholinyl)phenyl]-6-methyl-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-92-7 HCAPLUS

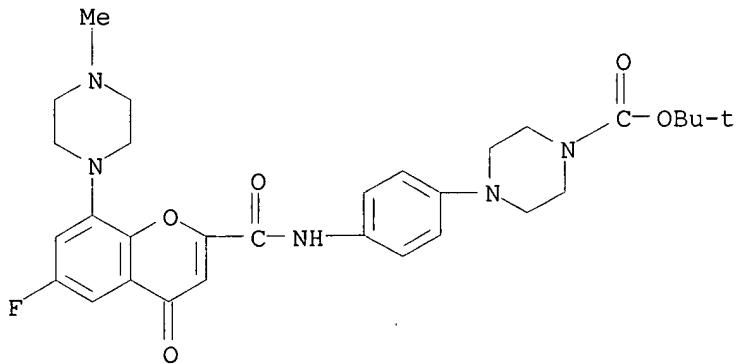
CN 4H-1-Benzopyran-2-carboxamide, 6-chloro-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-96-1 HCAPLUS

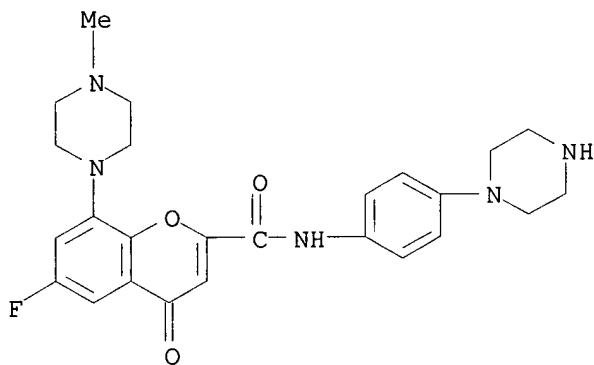
CN 1-Piperazinecarboxylic acid, 4-[4-[[[6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-4H-1-benzopyran-2-yl]carbonyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

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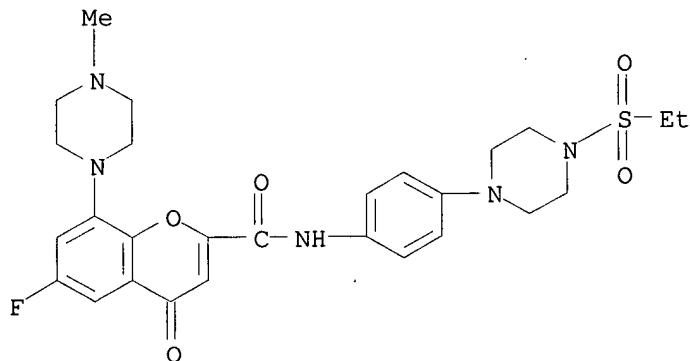
RN 442548-97-2 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-(1-piperazinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 442548-98-3 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[4-[4-(ethylsulfonyl)-1-piperazinyl]phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)

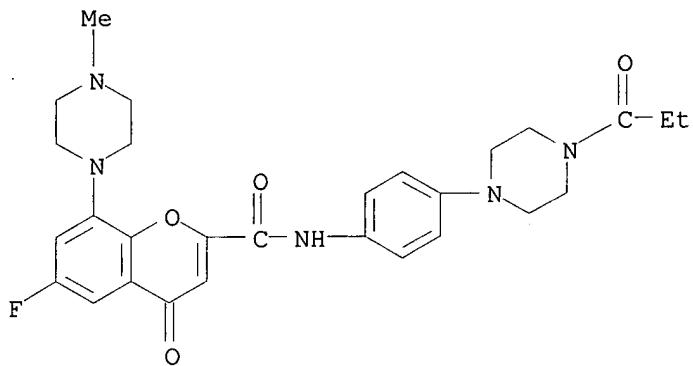


RN 442548-99-4 HCAPLUS

Searcher : Shears 308-4994

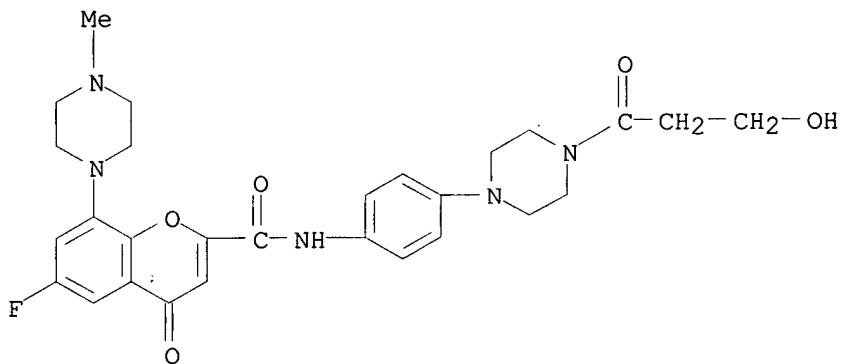
10/051776

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)



RN 442549-00-0 HCAPLUS

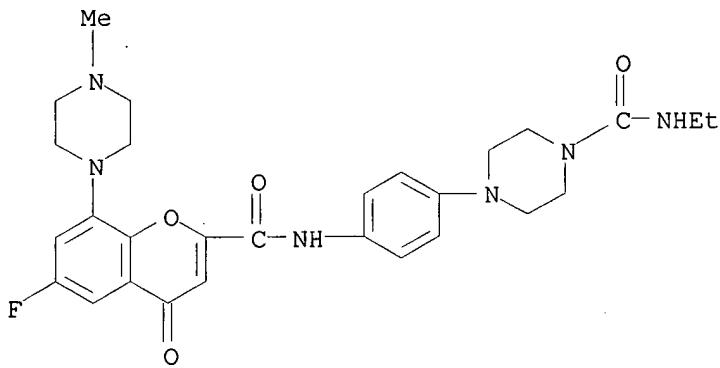
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-N-[4-[4-(3-hydroxy-1-oxopropyl)-1-piperazinyl]phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442549-08-8 HCAPLUS

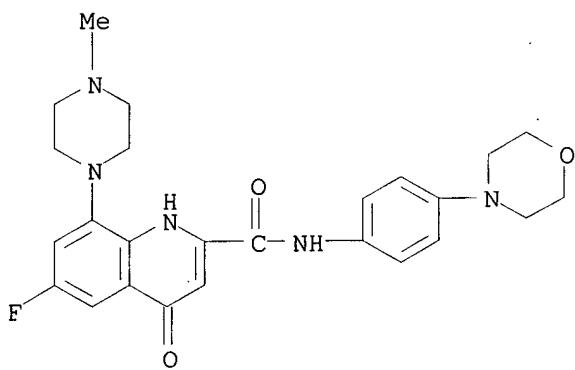
CN 1-Piperazinecarboxamide, N-ethyl-4-[4-[[[6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-4H-1-benzopyran-2-yl]carbonyl]amino]phenyl]- (9CI) (CA INDEX NAME)

10/051776



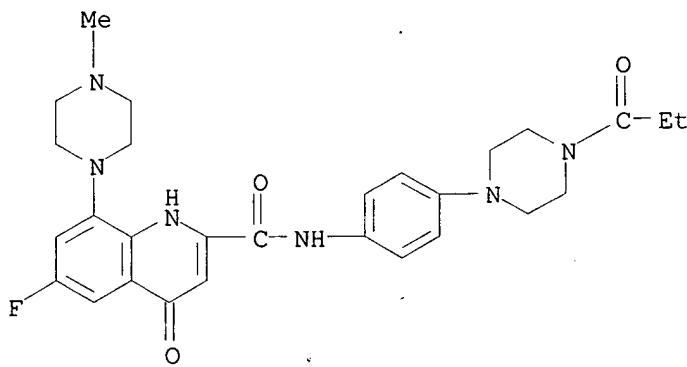
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CN 2-Quinolinecarboxamide, 6-fluoro-1,4-dihydro-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)



RN 442549-18-0 HCAPLUS

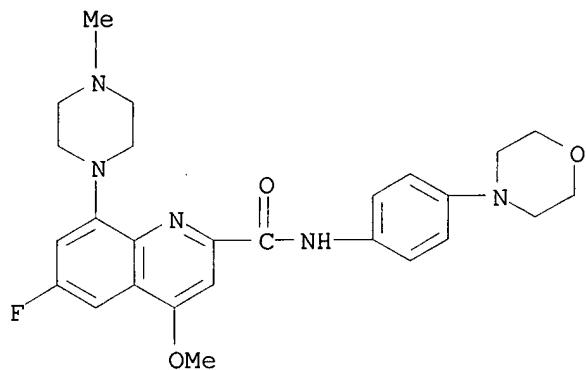
CN 2-Quinolinecarboxamide, 6-fluoro-1,4-dihydro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)



10/051776

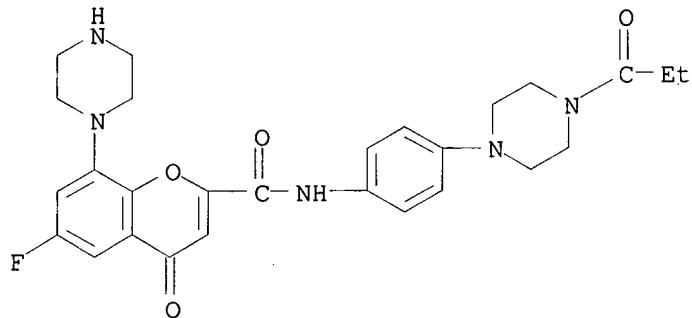
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CN 2-Quinolinecarboxamide, 6-fluoro-4-methoxy-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 442549-28-2 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



IT 442549-69-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of piperazinylchromans as 5-HT1B and 5-HT1D
agonists/antagonists useful as antimigraine drugs)

RN 442549-69-1 HCAPLUS

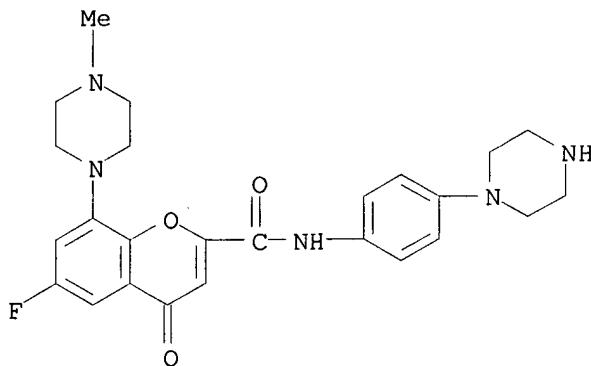
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-(1-piperazinyl)phenyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

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CRN 442548-97-2

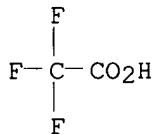
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10/051776



CM 2

CRN 76-05-1
CMF C2 H F3 O2



L20 ANSWER 2 OF 3 HCPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:539472 HCPLUS
DOCUMENT NUMBER: 137:93772
TITLE: Preparation of piperazinylchromenones as 5-HT1B
5-HT1D agonists/antagonists useful as drugs.
INVENTOR(S): Chapdelaine, Marc; Davenport, Timothy;
Haeberlein, Markus; Horchler, Carey; McCauley,
John; Pierson, Edward; Sohn, Daniel
PATENT ASSIGNEE(S): AstraZeneca Ab, Swed.
SOURCE: PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

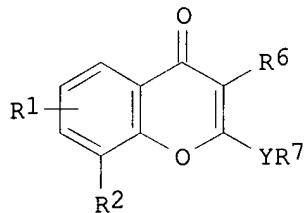
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,				

10/051776

CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-262109P P 20010116
SE 2001-3647 A 20011101

OTHER SOURCE(S): MARPAT 137:93772
GI



AB Title compds. [I; R1 = H, thiomethoxy, NHA, NA2, NHCOA, halo, OH, OA, cyano, aryl, (substituted) alkyl, cycloalkyl, etc.; A = (substituted) alkyl, cycloalkyl, alkenyl, alkynyl; R2 = (substituted) piperazinyl, homopiperazinyl, aminoalkylamino, aminoheterocyclyl, heterocyclylamino; R6 = H, Me; Y = CONH, CONA, CSNH, CH2CO, CH2NA, piperazinylcarbonyl, 5-membered heterocyclylene, etc.; R7 = (substituted) mono- or bicyclic aryl, heterocyclyl], were prep'd. Thus, 8-(4-methyl-1-piperazinyl)-4-oxo-4H-chromene-2-carboxylic acid hydrochloride (prepn. given) in DMF/Et3N was treated sequentially with 1-hydroxybenzotriazole, O-(1H-benzotriazol-1-yl)-N,N,N',N'-pentamethylenuronium tetrafluoroborate, 4-dimethylaminopyridine, and 4-(4-morpholinyl)aniline (prepn. given) to give 8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo-4H-chromene-2-carboxamide. Several I showed 5-HT1B antagonist activity in the range 0.006-5.5 mg/kg in a screen for reversal of hypothermia in guinea pigs.

IT 442548-39-2P 442548-55-2P 442548-60-9P
442548-61-0P 442548-82-5P 442548-83-6P
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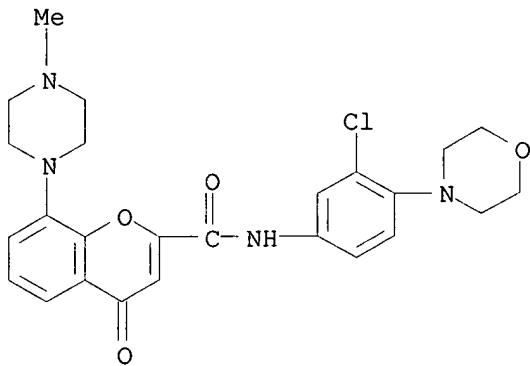
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperazinylchromenones as 5-HT1B 5-HT1D
agonists/antagonists useful as drugs)

RN 442548-39-2 HCPLUS

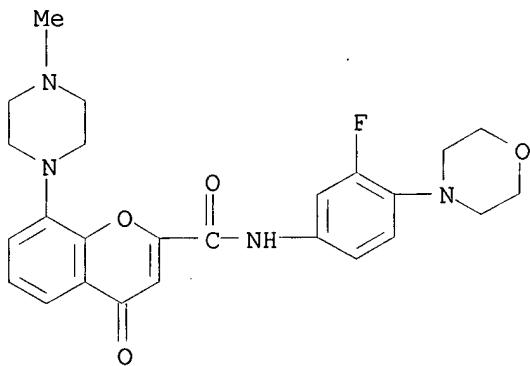
CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)

10/051776



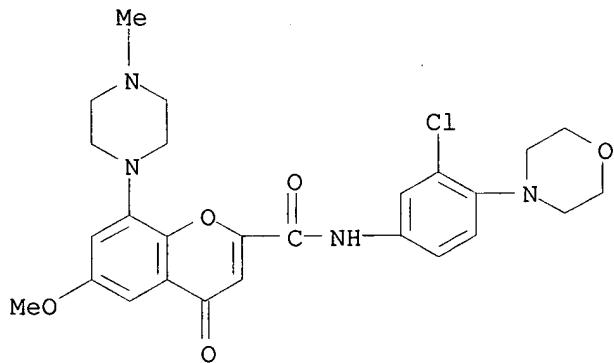
RN 442548-55-2 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[3-fluoro-4-(4-morpholinyl)phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-60-9 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-6-methoxy-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)

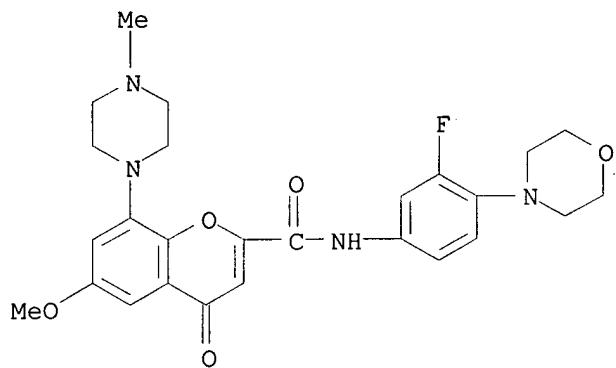


RN 442548-61-0 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[3-fluoro-4-(4-morpholinyl)phenyl]-

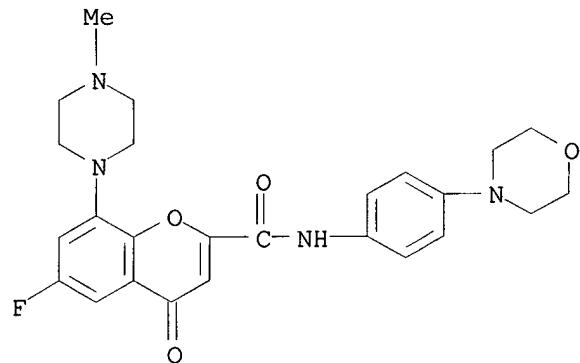
10/051776

6-methoxy-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



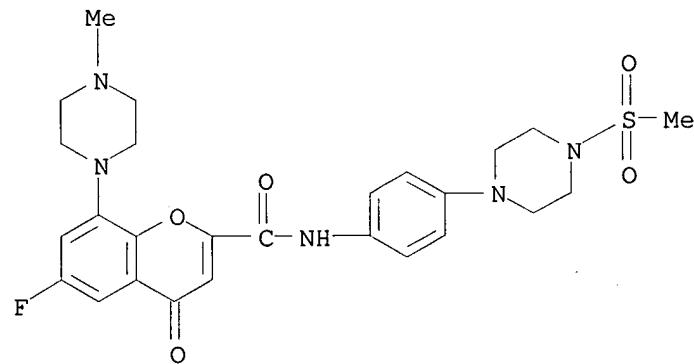
RN 442548-82-5 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-83-6 HCAPLUS

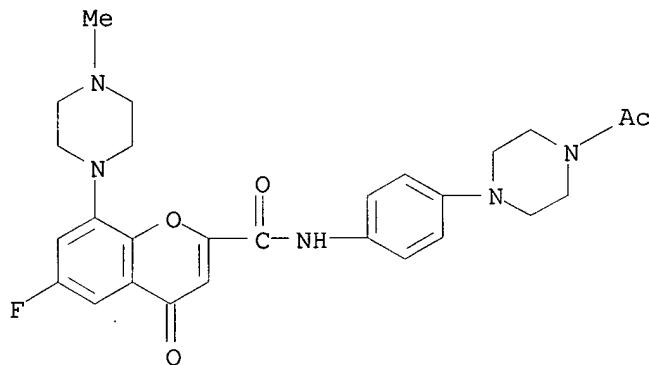
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-N-[4-[4-(methylsulfonyl)-1-piperazinyl]phenyl]-4-oxo- (9CI) (CA INDEX NAME)



10/051776

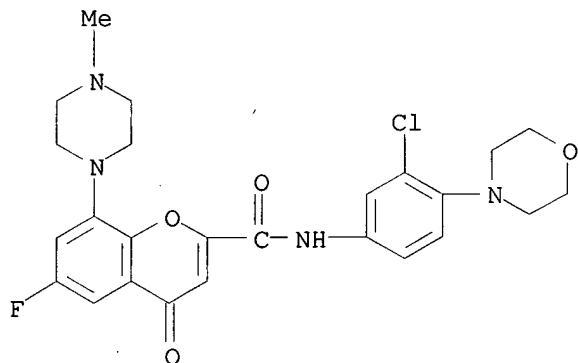
RN 442548-84-7 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[4-(4-acetyl-1-piperazinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-85-8 HCAPLUS

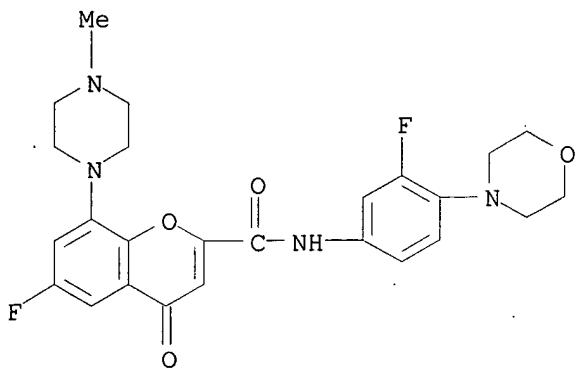
CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-86-9 HCAPLUS

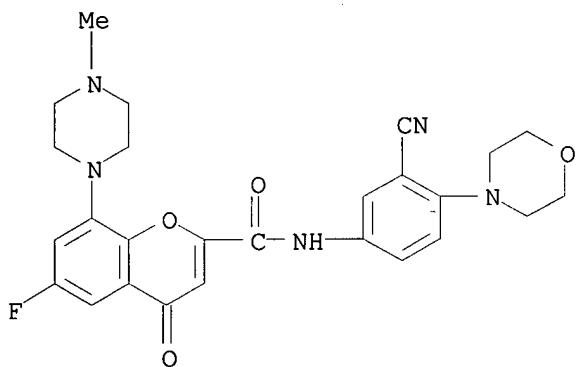
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-N-[3-fluoro-4-(4-morpholinyl)phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)

10/051776



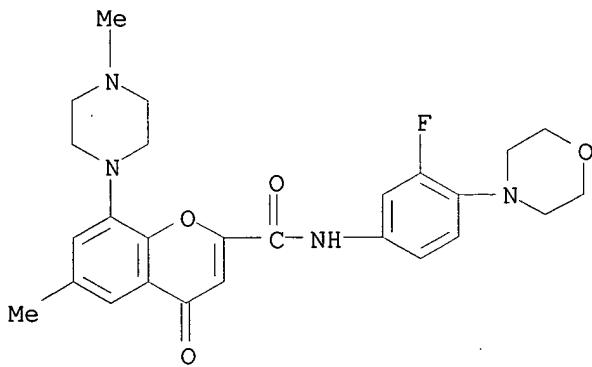
RN 442548-87-0 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[3-cyano-4-(4-morpholinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-91-6 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[3-fluoro-4-(4-morpholinyl)phenyl]-6-methyl-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)

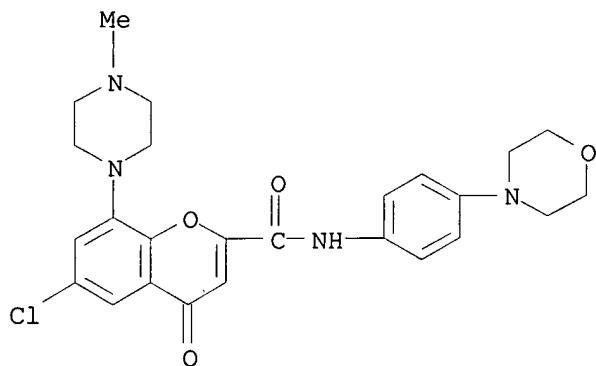


RN 442548-92-7 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-chloro-8-(4-methyl-1-piperazinyl)-N-

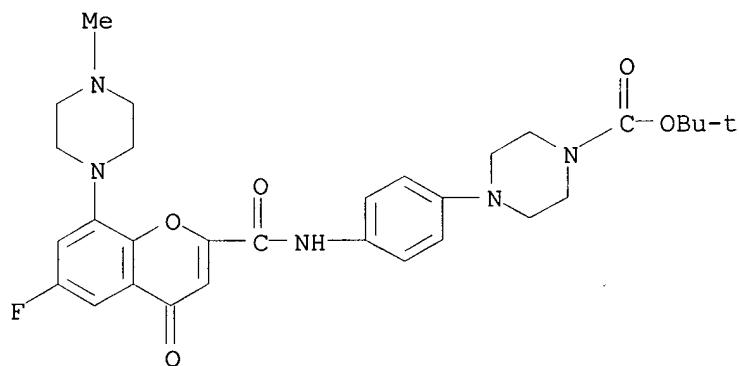
10/051776

[4-(4-morpholinyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)



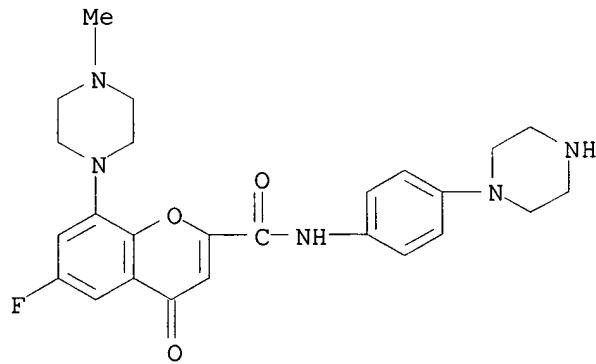
RN 442548-96-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-4H-1-benzopyran-2-yl]carbonyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 442548-97-2 HCAPLUS

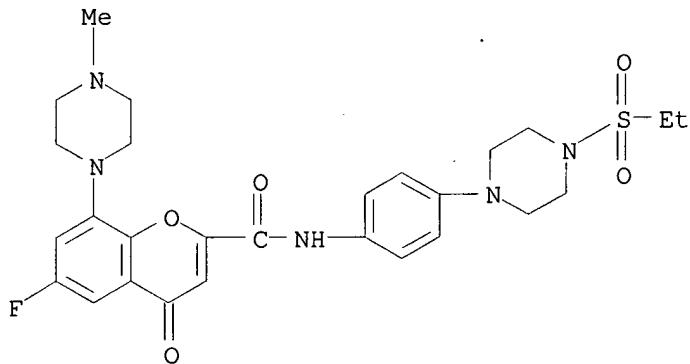
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-(1-piperazinyl)phenyl]- (9CI) (CA INDEX NAME)



10/051776

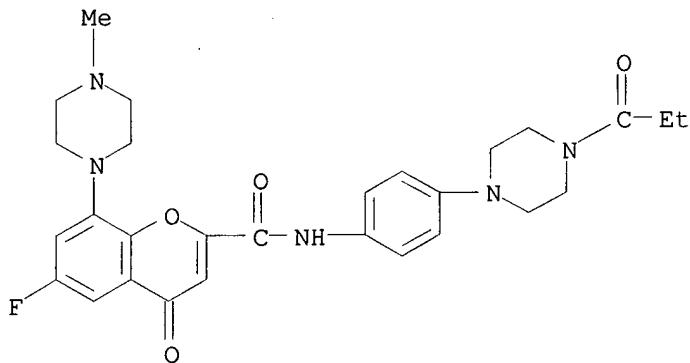
RN 442548-98-3 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[4-[4-(ethylsulfonyl)-1-piperazinyl]phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI)
(CA INDEX NAME)



RN 442548-99-4 HCAPLUS

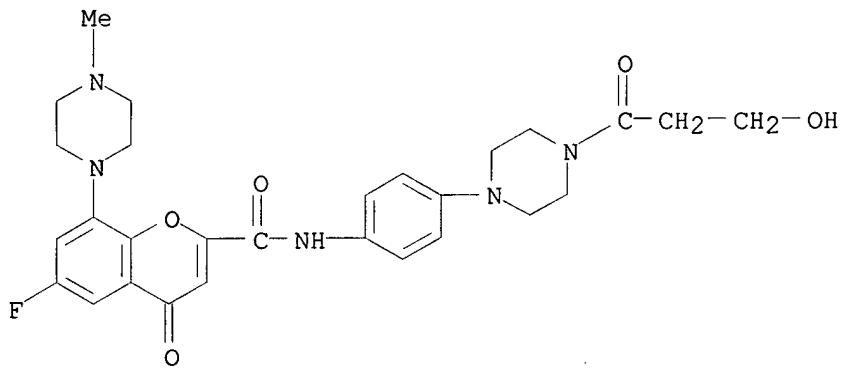
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)



RN 442549-00-0 HCAPLUS

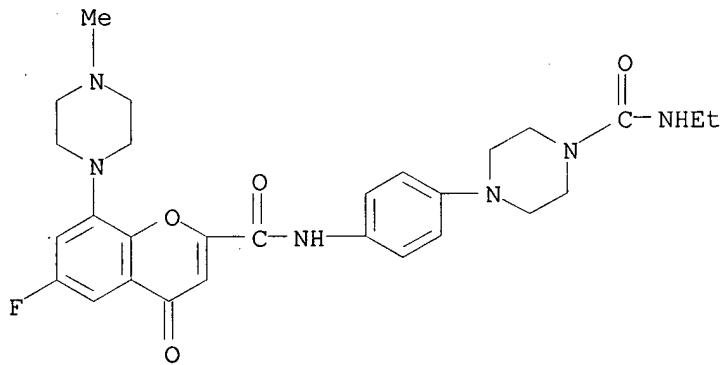
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-N-[4-[4-(3-hydroxy-1-oxopropyl)-1-piperazinyl]phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)

10/051776



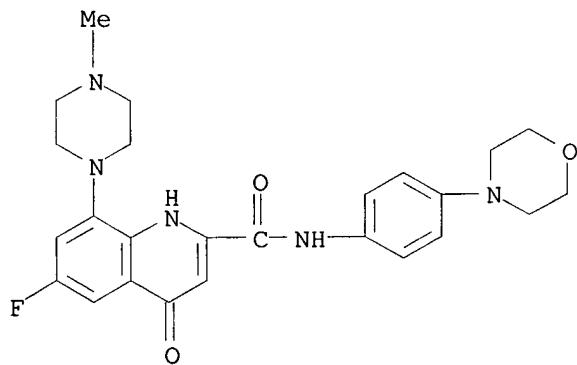
RN 442549-08-8 HCAPLUS

CN 1-Piperazinecarboxamide, N-ethyl-4-[4-[[[6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-4H-1-benzopyran-2-yl]carbonyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 442549-17-9 HCAPLUS

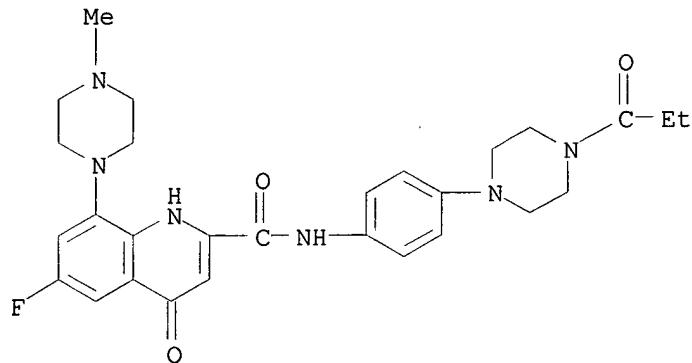
CN 2-Quinolinicarboxamide, 6-fluoro-1,4-dihydro-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)



10/051776

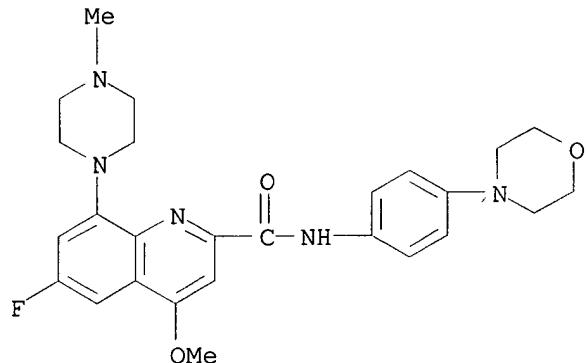
RN 442549-18-0 HCAPLUS

CN 2-Quinolinecarboxamide, 6-fluoro-1,4-dihydro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)



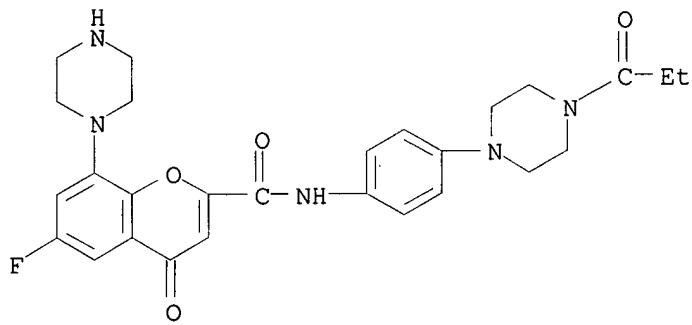
RN 442549-27-1 HCAPLUS

CN 2-Quinolinecarboxamide, 6-fluoro-4-methoxy-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 442549-28-2 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



IT 442549-69-1

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of piperazinylchromenones as 5-HT1B 5-HT1D
 agonists/antagonists useful as drugs)

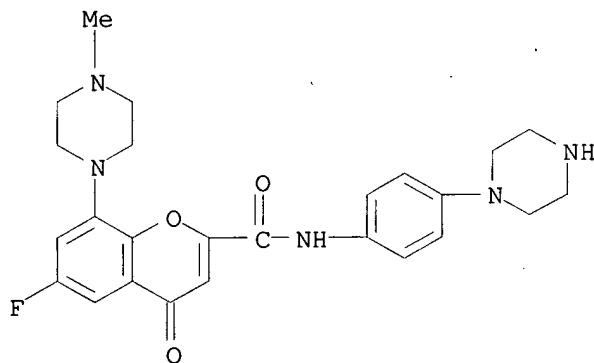
RN 442549-69-1 HCPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-
 oxo-N-[4-(1-piperazinyl)phenyl]-, bis(trifluoroacetate) (9CI) (CA
 INDEX NAME)

CM 1

CRN 442548-97-2

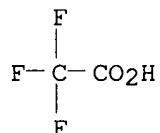
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CM 2

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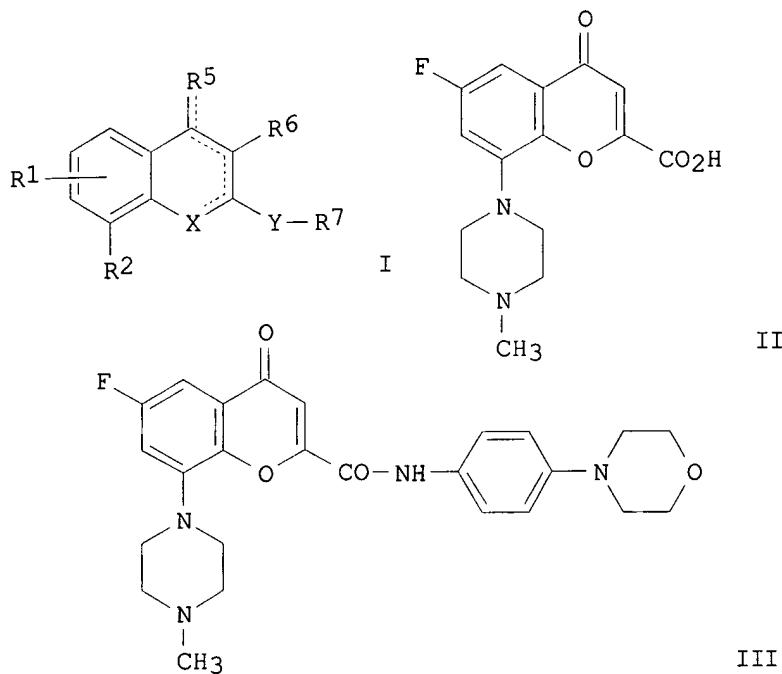
CMF C2 H F3 O2



10/051776

L20 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:539471 HCAPLUS
DOCUMENT NUMBER: 137:109205
TITLE: Preparation of 4-oxo-4H-chromene-2-carboxamides
and related compounds as antagonists or agonists
of serotonin 5HT1B and 5HT1D receptors
INVENTOR(S): Chapdelaine, Marc; Davenport, Timothy;
Haeberlein, Markus; Horchler, Carey; McCauley,
John; Pierson, Edward; Sohn, Daniel
PATENT ASSIGNEE(S): Astrazeneca Ab, Swed.
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055012	A2	20020718	WO 2002-SE68	20020115
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2001-262107P	P 20010116
			SE 2001-3650	A 20011101
OTHER SOURCE(S):		MARPAT 137:109205		
GI				



AB Title compds. I and their pharmaceutically acceptable salts [R1 = H, alkyl, cycloalkyl, thiomethoxy, etc.; R2 = NR3R3; R3 independently = H, (un)substituted alkylamine e.g., alkyl, alkenyl, alkynyl amino-heterocycle, etc; R3-R3 = (un)substituted cycloalkylamine or amino-heterocycle e.g., alkyl, alkenyl, alkynyl, etc; R5 = H, O, S, etc.; R6 = H, Me; R7 = (un)substituted mono- or bicyclo- arom., (un)substituted heterocycle; X = O, N, NH, S; Y = CONH, NHCO, CSNH, etc.] were prep'd with the proviso that multiple bonds are sepd. from each other by at least one single bond. For example, condensation of 4-oxo-4H-chromene-2-carboxylic acid II e.g., prep'd. from diethylacetylenedicarboxylate and 2-bromo-4-fluorophenol in 5 steps, and 4-morpholin-4-yl-phenylamine provided preferred 4-oxo-4H-chromene-2-carboxamide III. The utility of the compds. of the present invention were tested using a guinea pig hypothermia test, ED50 values for compds. I range from 0.006-5.5 mg/kg. Compds. I are disclosed to be antagonists or agonists of serotonin 5HT1B and 5HT1D receptors (no data provided). Also I are claimed for use in the treatment of gastrointestinal disorders, cardiovascular regulation, motor disorders, etc..

IT 442548-39-2P 442548-55-2P 442548-60-9P
442548-61-0P 442548-82-5P 442548-83-6P
442548-84-7P, 6-Fluoro-8-(4-methylpiperazin-1-yl)-4-oxo-4H-
chromene-2-carboxylic acid[4-(4-acetyl piperazin-1-yl)phenyl]amide
442548-85-8P 442548-86-9P 442548-87-0P
442548-91-6P 442548-92-7P 442549-00-0P,
6-Fluoro-8-(4-methylpiperazin-1-yl)-4-oxo-4H-chromene-2-carboxylic
acid[4-[4-(3-hydroxypropanoyl)piperazin-1-yl]phenyl]amide
442549-08-8P, 4-[4-[(1-[6-Fluoro-8-(4-methylpiperazin-1-yl)-
4-oxo-4H-chromen-2-yl]methanoyl]amino]phenyl]piperazine-1-carboxylic
acid ethylamide 442549-17-9P 442549-18-0P,

10/051776

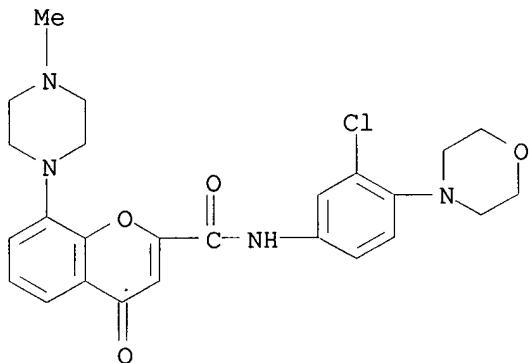
6-Fluoro-8-(4-methylpiperazin-1-yl)-4-oxo-1,4-dihydroquinoline-2-carboxylic acid[4-(4-propionylpiperazin-1-yl)phenyl]amide
442549-27-1P, 6-Fluoro-4-methoxy-8-(4-methylpiperazin-1-yl)quinoline-2-carboxylic acid(4-morpholin-4-ylphenyl)amide
442549-69-1P 442914-98-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; prepn. of 4-oxo-4H-chromene-2-carboxamides and related compds. as antagonists or agonists of serotonin 5HT1B and 5HT1D receptors)

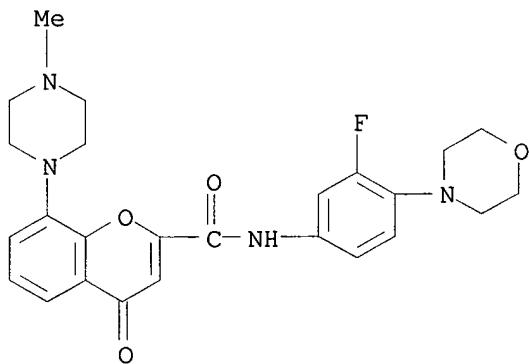
RN 442548-39-2 HCPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



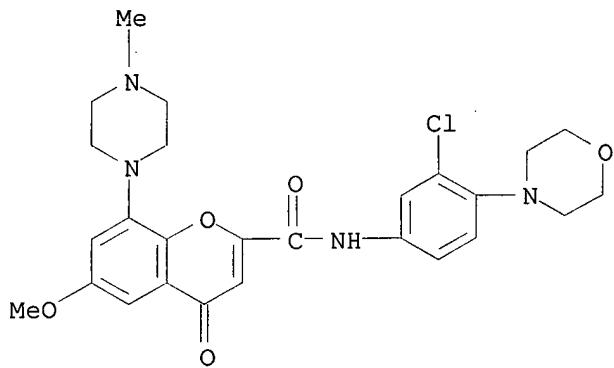
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CN 4H-1-Benzopyran-2-carboxamide, N-[3-fluoro-4-(4-morpholinyl)phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



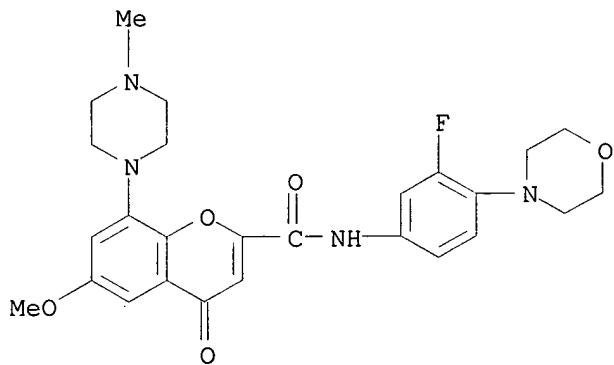
RN 442548-60-9 HCPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-6-methoxy-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



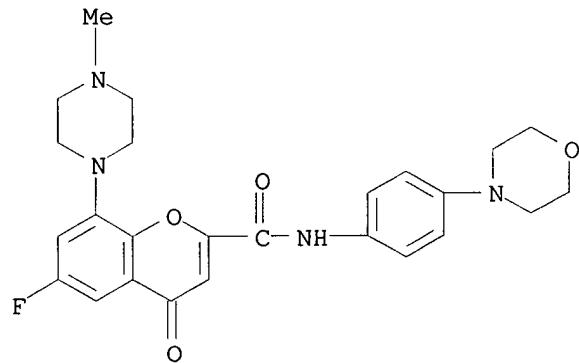
RN 442548-61-0 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[3-fluoro-4-(4-morpholinyl)phenyl]-6-methoxy-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-82-5 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)

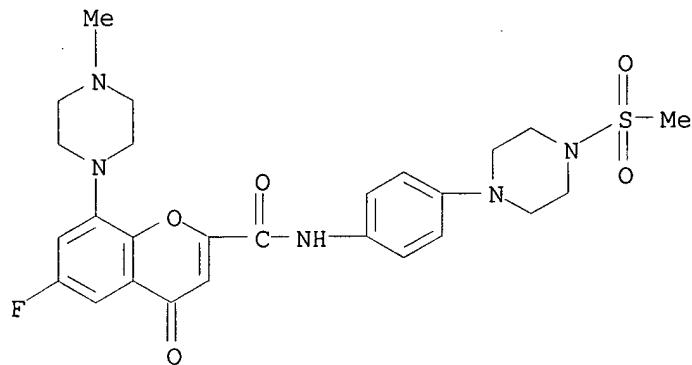


RN 442548-83-6 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-N-

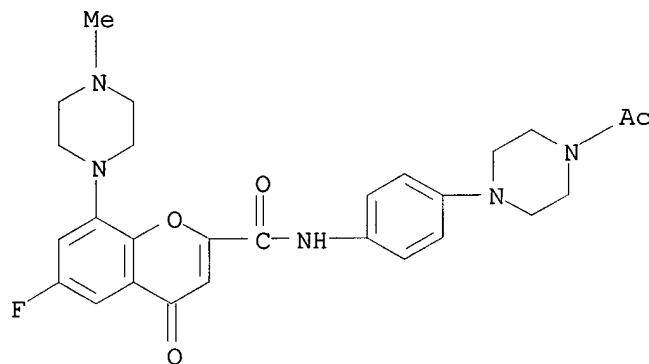
10/051776

[4-[4-(methylsulfonyl)-1-piperazinyl]phenyl]-4-oxo- (9CI) (CA INDEX NAME)



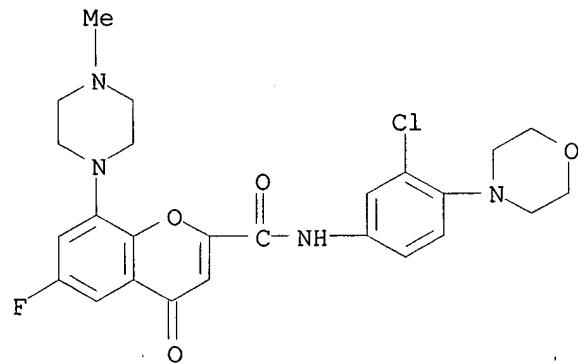
RN 442548-84-7 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[4-(4-acetyl-1-piperazinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-85-8 HCAPLUS

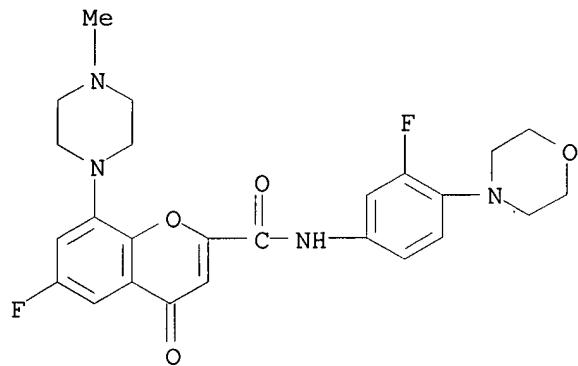
CN 4H-1-Benzopyran-2-carboxamide, N-[3-chloro-4-(4-morpholinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



10/051776

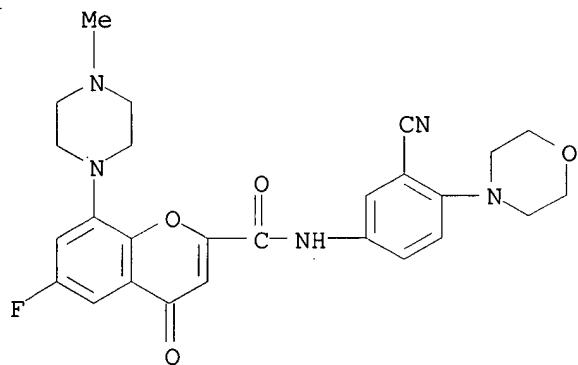
RN 442548-86-9 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-N-[3-fluoro-4-(4-morpholinyl)phenyl]-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-87-0 HCAPLUS

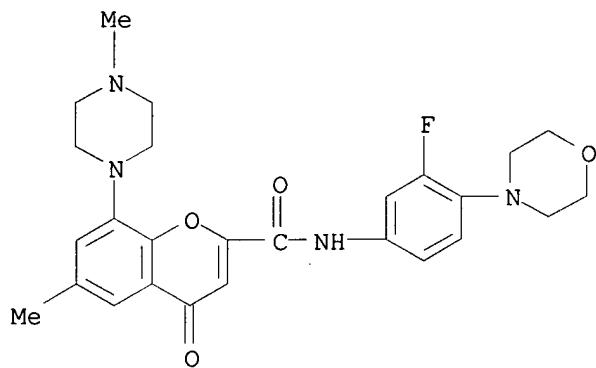
CN 4H-1-Benzopyran-2-carboxamide, N-[3-cyano-4-(4-morpholinyl)phenyl]-6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442548-91-6 HCAPLUS

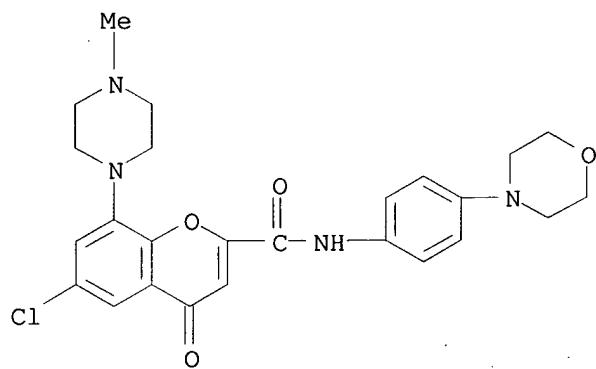
CN 4H-1-Benzopyran-2-carboxamide, N-[3-fluoro-4-(4-morpholinyl)phenyl]-6-methyl-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)

10/051776



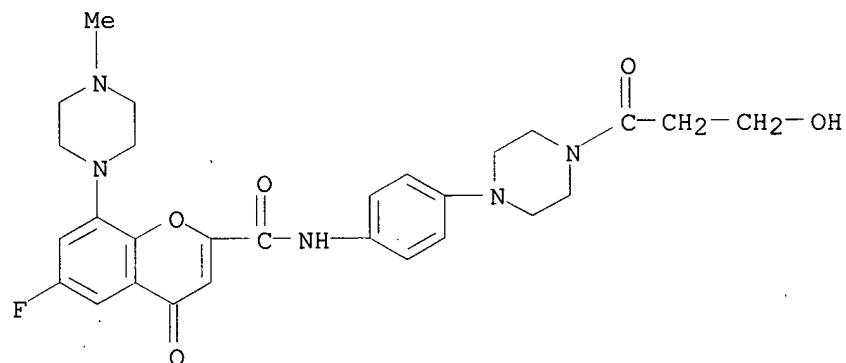
RN 442548-92-7 HCPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-chloro-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)



RN 442549-00-0 HCPLUS

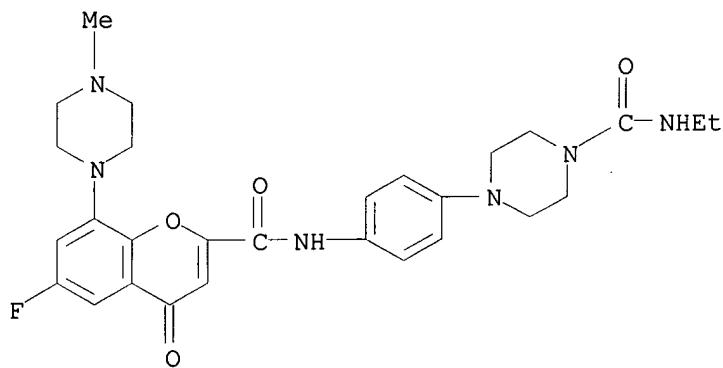
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-N-[4-(3-hydroxy-1-oxopropyl)-1-piperazinyl]phenyl-8-(4-methyl-1-piperazinyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 442549-08-8 HCPLUS

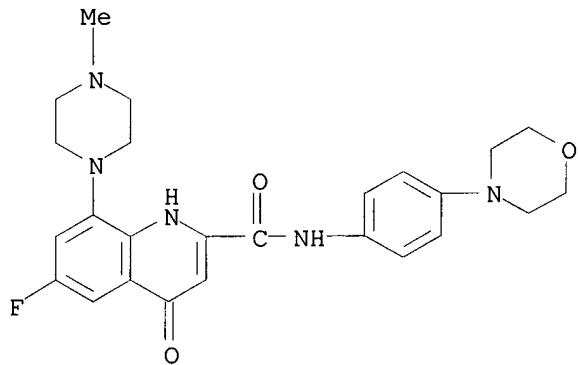
10/051776

CN 1-Piperazinecarboxamide, N-ethyl-4-[[4-[[6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-4H-1-benzopyran-2-yl]carbonyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 442549-17-9 HCAPLUS

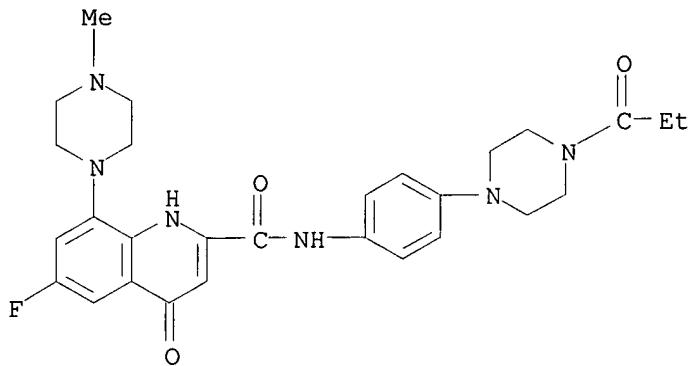
CN 2-Quinolinicarboxamide, 6-fluoro-1,4-dihydro-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)



RN 442549-18-0 HCAPLUS

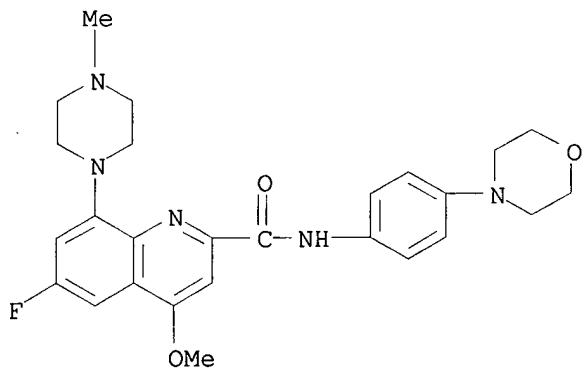
CN 2-Quinolinicarboxamide, 6-fluoro-1,4-dihydro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)

10/051776



RN 442549-27-1 HCAPLUS

CN 2-Quinolinecarboxamide, 6-fluoro-4-methoxy-8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 442549-69-1 HCAPLUS

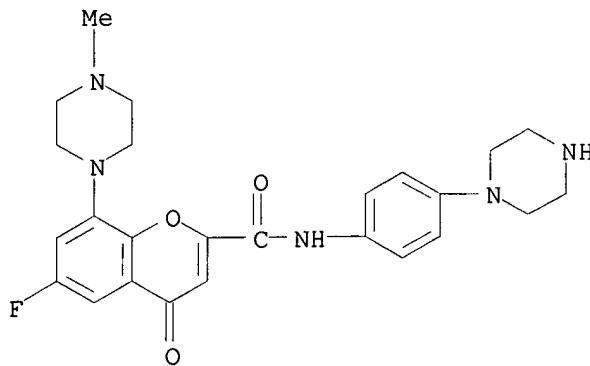
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-(1-piperazinyl)phenyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 442548-97-2

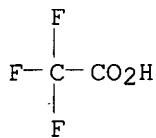
CMF C25 H28 F N5 O3

10/051776

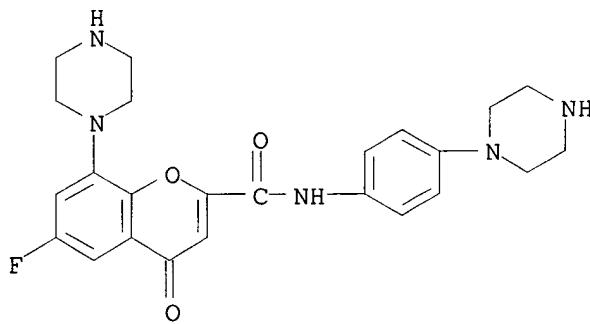


CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 442914-98-9 HCAPLUS
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-4-oxo-8-(1-piperazinyl)-N-[4-(1-piperazinyl)phenyl]-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

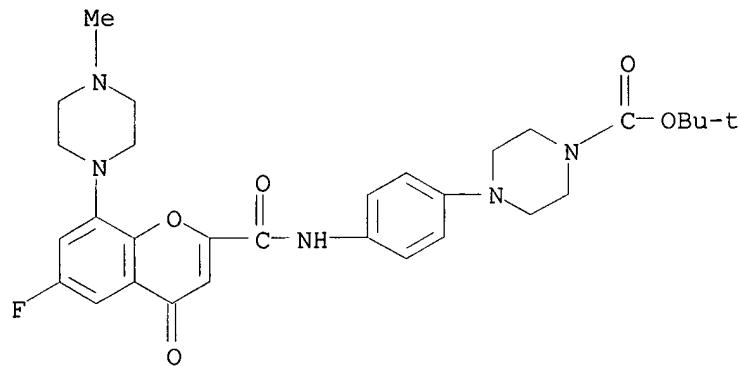
IT 442548-96-1P, 4-[4-[[1-[6-Fluoro-8-(4-methylpiperazin-1-yl)-4-oxo-4H-chromen-2-yl]methanoyl]amino]phenyl]piperazine-1-carboxylic acid tert-butyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)

10/051776

(intermediate; prepn. of 4-oxo-4H-chromene-2-carboxamides and related compds. as antagonists or agonists of serotonin 5HT1B and 5HT1D receptors)

RN 442548-96-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[[6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-4H-1-benzopyran-2-yl]carbonyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

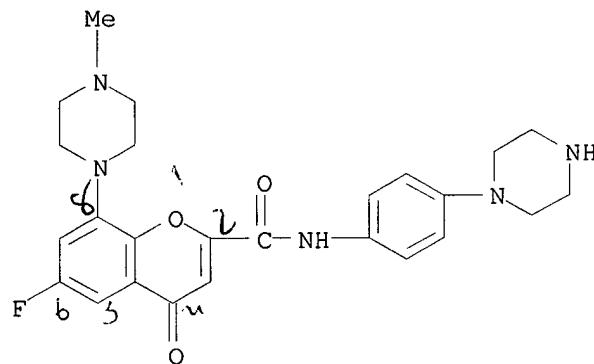


IT 442548-97-2P 442548-99-4P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of 4-oxo-4H-chromene-2-carboxamides and related compds. as antagonists or agonists of serotonin 5HT1B and 5HT1D receptors)

RN 442548-97-2 HCAPLUS

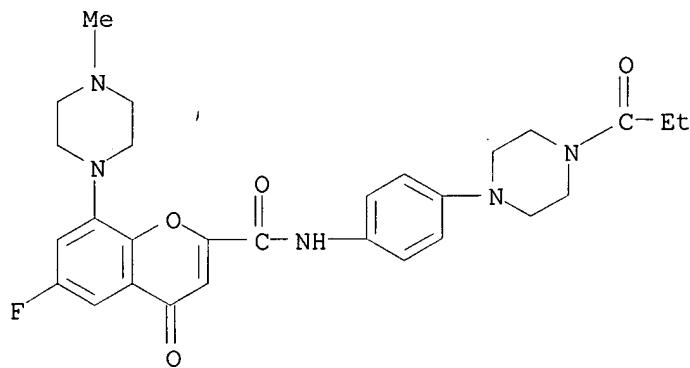
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-(1-piperazinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 442548-99-4 HCAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-8-(4-methyl-1-piperazinyl)-4-oxo-N-[4-(4-(1-oxopropyl)-1-piperazinyl)phenyl]- (9CI) (CA INDEX NAME)

10/051776



FILE 'CAOLD' ENTERED AT 11:41:35 ON 22 OCT 2002
L21 0 S L19

FILE 'USPATFOL' ENTERED AT 11:41:41 ON 22 OCT 2002
L22 0 S L19

=> fil hom
FILE 'HOME' ENTERED AT 11:49:09 ON 22 OCT 2002